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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

ISMAIL, SHAWKI SAIF

ART UNIT PAPER NUMBER

2155

DATE MAILED: 11/03/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/783,185

Applicant(s)

IGARASHI ET AL.

Examiner

Shawki S Ismail

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 14 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☒ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date Paper No. 5.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

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## DETAILED ACTION

1. Claims 1-15 are presented for examination.

The references in IDS, paper No. 5 dated 03-023-04 have been considered.

The references in IDS, Paper No. 2 dated 07-26-2002 and Paper No. 3 dated 11-27-2002 have not been considered because examiner was unable to find them in the case.

### *Priority*

2. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 02/21/2000. It is noted, however, that applicant has not filed a certified copy of the 043408 application as required by 35 U.S.C. 119(b).

### *Claim Rejections - 35 USC §102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. Claims 1-15 are rejected under 35 U.S.C. 102(e) as being anticipated by **Leung et al. (Leung)** U.S. Patent No. **6,795,857**.

5. As to claim 1, Leung teaches a mobile communications service providing system in which location registration request information is transmitted from a mobile node to a home agent via a foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile node via the server system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile communications service is provided based on the registration, wherein:

the home agent and the foreign agent comprise a controlling unit determining a transfer destination of a packet (col. 3, lines 14-30);

the server system comprises

an extracting unit extracting a service profile corresponding to the mobile node from a database for managing a service profile which includes information for providing a service requested by the mobile node (col. 2, lines 8-30, mobility binding table),

a service managing unit editing the service profile extracted by said extracting unit into a format that is available to said controlling unit (col. 2, lines 8-30 update of visitor table), and

a distributing unit distributing the service profile edited by said service managing unit to the home agent and the foreign agent (col. 2, lines 31-56), and

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the home agent and the foreign agent provide a service by using said controlling unit according to the service profile distributed from the server system (col. 2, lines 31-56).

6. As to claim 2, Leung teaches the system according to claim 1, wherein

the server system does not distribute a service profile to the home agent and the foreign agent, if the mobile node does not request a value-added service, and the home agent and the foreign agent provide a fundamental service according to information that the home agent and the foreign agent themselves generate (col. 2, lines 31-56).

7. As to claim 3, Leung teaches the system according to claim 1, wherein:

an address range available for a predetermined service is specified beforehand; a service profile including information representing the address range which is specified beforehand is set in the home agent and the foreign agent as a condition for extracting a corresponding packet from among received packets; and the server system assigns an address within the address range to the mobile node that requests the predetermined service (col. 12, lines 9-55).

8. As to claim 4, Leung teaches the system according to claim 1, wherein:

the server system comprises a home server device which has a right to access the database in order to extract the service profile for the mobile node, and a foreign server device which does not have such an access right; and the home server device distributes the service profile to the home agent and the foreign server device, and the foreign server device forwards the service profile to the foreign agent (col. 11, lines 24-39).

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9. As to claim 5, Leung teaches the system according to claim 1, wherein:

the server system comprises a home server device which has a right to access the database in order to extract the service profile for the mobile node, and a foreign server device which does not have such an access right; and the home server device distributes the service profile to the foreign server device, and the foreign server device forwards the service profile to the home agent and the foreign agent (col. 11, lines 24-39).

10. As to claim 6, Leung teaches the system according to claim 1, wherein:

the server system comprises a home server device which has a right to access the database in order to extract the service profile for the mobile node, and a foreign server device which does not have such an access right; the mobile node notifies the home agent of location registration request information via a second foreign agent when moving from a communication area of a first foreign agent to a communication area of the second foreign agent; the home agent updates information for routing a packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and the foreign server device distributes the service profile to the second foreign agent (col. 2, lines 57-65 and col. 4, lines 23-39).

11. As to claim 7, Leung teaches the system according to claim 1, wherein:

the server system comprises a home server device which has a right to access the database in order to extract the service profile for the mobile node, and first and second foreign server devices which do not have such an access right; the mobile node notifies the home agent of location registration request

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information via a second foreign agent, the second foreign server device, and the home server device when moving from a communication area of a first foreign agent managed by the first foreign server device to a communication area of the second foreign agent managed by the second foreign server device; the home agent updates information for routing a packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and the home server device distributes the service profile to the second foreign server device, which then forwards the service profile to the second foreign agent (col. 2, lines 57-65 and col. 4, lines 23-39).

12. As to claim 8, Leung teaches the system according to claim 1, wherein:

the server system comprises a home server device which has a right to access the database in order to extract a service profile for the mobile node, and first and second foreign server devices which do not have such an access right; the mobile node notifies the home agent of location registration request information via a second foreign agent, the second foreign server device, the home server device, and the first foreign server device when moving from a communication area of a first foreign agent managed by the first foreign server device to a communication area of the second foreign agent managed by the second foreign server device; the home agent updates information for routing a packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and the home server device distributes the service profile

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to the second foreign server device, which then forwards the service profile to the second foreign agent (col. 2, lines 57-65 and col. 4, lines 23-39).

13. As to claim 9, Leung teaches the system according to claim 1, wherein:

upon receipt of the packet addressed to the mobile node from a correspondent node, the home agent distributes to the correspondent node a service profile for extracting a packet in which the mobile node is set as a destination; and the correspondent node generates information for transmitting to the foreign agent a packet which is extracted according to the distributed service profile (col. 2, lines 57-65 and col. 4, lines 23-39).

14. As to claim 10, Leung teaches the system according to claim 1, wherein

when providing a service for transferring to an arbitrary mobile node among a plurality of mobile nodes a packet with a virtual address assigned to the plurality of mobile nodes as a destination: an address proxy server receiving the packet with the virtual address is arranged; and the server system distributes to said address proxy server a service profile for extracting the packet with the virtual address is assigned and transferring the extracted packet to the particular mobile node among the plurality of mobile nodes, and also distributes to a foreign agent a service profile for transferring to the particular mobile node a packet addressed to the foreign agent which accommodates the particular mobile node (col. 3, lines 31-67).

15. As to claim 11, it contains similar limitations as claim 1; therefore, it is rejected under the same rationale.



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16. As to claim 12, it contains similar limitations as claim 1; therefore, it is rejected under the same rationale.

17. As to claim 13, it contains similar limitations as claim 1; therefore, it is rejected under the same rationale.

18. As to claim 14, it contains similar limitations as claim 1; therefore, it is rejected under the same rationale.

19. As to claim 15, Leung teaches an agent device as a home agent or a foreign agent for use in a mobile communications service providing system in which location registration request information is transmitted from a mobile node to the home agent via the foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile node via the server system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile communications service is provided based on the registration, said agent comprising:

a service-independent unit determining a processing method for a received packet according to header information of the received packet (col. 12, lines 9-45);

an individual service controlling unit using said service-independent unit according to a service profile edited into a format that is available to said service-independent unit by the server system (col. 7, lines 10-33); and

a packet controlling unit processing a packet according to a processing result of use of said service-independent unit (col. 7, lines 10-33).

### ***Conclusion***

20. The Prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Evans et al. (6,311,060) teaches the method and system for registering the location of a mobile cellular communications device.
- b. Watanuki et al. (6,172,986) teaches a Mobile node, mobile agent and network system.
- c. Warriar et al. (6,707,809) teaches the method for forwarding data to idle mobile nodes, and home agent control node for use in the method.
- d. Dynarski et al. (6,272,129) teaches a Dynamic allocation of wireless mobile nodes over an Internet protocol (IP) network.

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawki S Ismail whose telephone number is 571-272-3985. The examiner can normally be reached on M-F 8:30 - 5:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through

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Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shawki Ismail  
Patent Examiner  
November 1, 2004

  
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SUPERVISORY PATENT EXAMINER